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## Document Number 1

Entry 1 of 6

File: USPT

May 6, 1997

DOCUMENT-IDENTIFIER: US 5626611 A

TITLE: Composite bioabsorbable materials and surgical articles made therefrom

## ABPL:

The present invention relates to composite materials having a core portion formed from a first bioabsorbable material and at least one shell portion of a second bioabsorbable material joined to the core portion. The first and second bioabsorbable materials have different rates of bioabsorption. In a preferred embodiment, the core portion is coextruded with the shell portion to form a composite filament or sheet. The materials of the present invention may be used as sutures or formed into medical devices or surgical articles for implantation within a living organism.

## BSPR:

The invention relates to bioabsorbable materials and, more particularly, to composite bioabsorbable materials such as filaments and sheets. The composite includes a core of a first bioabsorbable material and at least one shell joined to the core, the shell being formed of a second bioabsorbable material. The first and second bioabsorbable materials preferably have different absorption rates.

## BSPR:

The present invention relates to composite materials having a core portion formed from a first bioabsorbable material and at least one shell portion formed from a second bioabsorbable material joined to the core portion. The first and second bioabsorbable materials have different rates of bioabsorption. In a preferred embodiment, the core portion is coextruded with the shell portion to form a composite filament or sheet. The materials of the present invention may be used as sutures or formed into medical devices or surgical articles for implantation within a living organism.

## DEPR:

Bioabsorbable materials used to form the shell portions of the composite filaments and sheets include, but are not limited to, absorbable polymers made from glycolide, glycolic acid, lactide, lactic acid, caprolactone, dioxanone, trimethylene carbonate and dimethyl trimethylene carbonate. Copolymers, (block or random) and mixtures and blends of such polymers and/or copolymers are also useful. Particularly useful polymers for the shell portion include polydioxanone, polycaprolactone, polylactide and polytrimethylene carbonate.

## CLPR:

5. A bioabsorbable filament as recited in claim 1 wherein said shell portion is coextensive with said core portion.

## CLPR:

8. A bioabsorbable filament as recited in claim 1 wherein said shell portion comprises a first shell portion formed from said second

bioabsorbable material and a second shell portion formed form a third bioabsorbable material, said second and third bioabsorbable material having different rates of bioabsorption.

CLPR:

9. A bioabsorbable filament as recited in claim 1 further comprising a coating formed over said shell portion.

CLPV:

wherein said bioabsorbable filament is formed by coextruding said core portion and said shell portion.

CLPV:

wherein said bioabsorbable filament is formed by coextruding said core portion and said shell portion.

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Entry 3 of 6

File: USPT

Nov 12, 1996

DOCUMENT-IDENTIFIER: US 5573518 A

TITLE: Sheath for wound closure caused by a medical tubular device

**BSPR:**

Yet still another object of the present invention is to provide a sheath with a bioabsorbable or non-bioabsorbable outer shell or coating and a bioabsorbable or non-bioabsorbable inner core to prevent hemorrhagic complications from a wound to avoid post surgical treatment of the wound.

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